	Application No.	Applicant(s)
Notice of Allowability	10/748,659	SATO ET AL.
	Examiner	Art Unit
	Reba I. Elmore	2189
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this ap ) or other appropriate communication IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>December 31, 2003</u> .		
2.   The allowed claim(s) is/are 1-10.		•
3.  Acknowledgment is made of a claim for foreign priority una   All b   Some* c   None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 5.  CORRECTED DRAWINGS (as "replacement sheets") must also including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application.  hitted. Note the attached EXAMINER es reason(s) why the oath or declarate st be submitted. son's Patent Drawing Review ( PTO	national stage application from the complying with the requirements  R'S AMENDMENT or NOTICE OF ation is deficient.  -948) attached  Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to a DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT.	the header according to 37 CFR 1.121 osit of BIOLOGICAL MATERIAL	(d). must be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO/SB/08),</li></ul>	<u>_</u>	(PTO-413), ite

Application/Control Number: 10/748,659 Page 2

Art Unit: 2189

## **DETAILED ACTION**

1. Claims 1-31 are presented for examination.

## REASONS FOR ALLOWANCE

- 2. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or discuss using a file controller for managing or controlling cache extents. Cache IDs are generated to include a hierarchical level of an object stored in the cache and an object identification for identifying the objects of each hierarchical level from each other object. A cache header table is generated, the cache header table contains the cache IDs and unique keys, indicating the relationship of the cache IDs and the cache extents in each hierarchical level. The unique key is used to bind the cache extent of a disk block, an object or file to one another. The cache header table is searched when a client machine attempts access of a disk drive using the cache ID and the unique key of the object.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **CONCLUSION**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reba I. Elmore, whose telephone number is (571) 272-4192. The examiner can normally be reached on Monday and Thursday from 7:30am to 6:00pm, EST.

\*\*\*\*

Application/Control Number: 10/748,659 Page 3

Art Unit: 2189

If attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor for AU 2189, Reginald G. Bragdon, can be reached for general questions concerning this application at (571) 272-4204. Additionally, the official fax phone number for the art unit is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center central telephone number is (571) 272-2100.

Reba I. Elmore

**Primary Patent Examiner** 

Bla f. El

Art Unit 2189

Thursday, January 04, 2007